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Name: _____

Practice Problems

Period: _____ Date: _____

Form #40479171530

[Step-By-Step](#)

[Answers](#)

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Name the sequence as arithmetic, geometric, or neither.

1) $2, \frac{5}{2}, 3, \frac{7}{2}, 4, \frac{9}{2}$

2) $-2, -\frac{23}{10}, -\frac{13}{5}, -\frac{29}{10}, -\frac{16}{5}, -\frac{7}{2}$

3) 4, 8, 16, 32, 64, 128

4) $-8, -3, -\frac{16}{3}, \frac{15}{2}, \frac{27}{2}, 14$

5) -8, 32, -128, 512, -2048, 8192

6) 8, -9, -40, 4, -18, -21

7) $-2, -\frac{4}{3}, -\frac{8}{9}, -\frac{16}{27}, -\frac{32}{81}, -\frac{64}{243}$

8) $-6, -\frac{53}{8}, -\frac{29}{4}, -\frac{63}{8}, -\frac{17}{2}, -\frac{73}{8}$

9) -2, -8, -32, -128, -512, -2048

10) $10, 3, -\frac{7}{3}, -14, 10, -2$

11) $8, -12, 18, -27, \frac{81}{2}, -\frac{243}{4}$

12) $6, \frac{27}{4}, \frac{15}{2}, \frac{33}{4}, 9, \frac{39}{4}$

13) 7, 9, 11, 13, 15, 17

14) $-4, -\frac{10}{3}, -\frac{8}{3}, -2, -\frac{4}{3}, -\frac{2}{3}$

15) 2, 3, 4, 5, 6, 7

16) 9, 17, 25, 33, 41, 49

17) $4, -\frac{20}{3}, \frac{100}{9}, -\frac{500}{27}, \frac{2500}{81}, -\frac{12500}{243}$

18) $9, \frac{27}{2}, \frac{81}{4}, \frac{243}{8}, \frac{729}{16}, \frac{2187}{32}$

19) $-3, 8, -10, -\frac{21}{2}, 10, -3$

20) $7, \frac{33}{5}, \frac{31}{5}, \frac{29}{5}, \frac{27}{5}, 5$

21) $4, \frac{22}{5}, \frac{24}{5}, \frac{26}{5}, \frac{28}{5}, 6$

22) -3, 6, -12, 24, -48, 96

23) $5, \frac{2}{3}, \frac{4}{3}, \frac{5}{2}, -\frac{4}{3}, -\frac{40}{3}$

24) 9, 45, 225, -1125, 5625, -28125

25) $15, 1, \frac{2}{3}, -5, -\frac{15}{2}, -14$

26) $-10, -2, -\frac{8}{3}, -8, -18, -8$

27) $2, \frac{9}{2}, 18, 3, -\frac{3}{2}, -16$

28) $1, \frac{1}{9}, -\frac{7}{9}, -\frac{5}{3}, -\frac{23}{9}, -\frac{31}{9}$

29) $-6, -15, -24, -33, -42, -51$

30) $9, \frac{81}{8}, \frac{45}{4}, \frac{99}{8}, \frac{27}{2}, \frac{117}{8}$

31) $20, 10, 27, -27, 8, -\frac{1}{3}$

32) $-10, -14, -18, -22, -26, -30$

33) $3, -2, \frac{4}{3}, -\frac{8}{9}, \frac{16}{27}, -\frac{32}{81}$

34) $-8, \frac{32}{3}, -\frac{128}{9}, \frac{512}{27}, -\frac{2048}{81}, \frac{8192}{243}$

35) $6, 24, 96, 384, 1536, 6144$

36) $-5, \frac{20}{3}, -\frac{80}{9}, \frac{320}{27}, -\frac{1280}{81}, \frac{5120}{243}$

37) $6, \frac{36}{5}, \frac{42}{5}, \frac{48}{5}, \frac{54}{5}, 12$

38) $-4, 4, -4, 4, -4, 4$

39) $2, 4, 8, 16, 32, 64$

40) $7, -7, 7, -7, 7, -7$